

MULTIPLICATION



To become better at anything, you have to keep trying. Even experts need practice! Work through the problems below, then check your answers.

$$\begin{array}{r} 17 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 18 \\ \hline \end{array}$$

Extra Work Space!

MULTIPLICATION

$$\begin{array}{r} 10 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 7 \\ \hline \end{array}$$

Extra Work Space!



MULTIPLICATION

$$\begin{array}{r} 19 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 11 \\ \hline \end{array}$$



Extra Work Space!

$$\begin{array}{r} 19 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 4 \\ \hline \end{array}$$

MULTIPLICATION

$$\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 9 \\ \hline \end{array}$$

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$$\begin{array}{r} 15 \\ \times 4 \\ \hline \end{array}$$

Extra Work Space!



WHO'S OLDER?

**Is Inez older than Creech? Is Matt older than Fluff?
Find out when you read this graph!**

Each dot on the graph marks a character's height and age. To find out who is older, measure the height of each character. Then match the height with a dot on the graph. When you have matched all the heights, can you tell who is older?

HINT: *The farther to the right you move on the graph, the older the character.*



Inez



Fluff



Creech



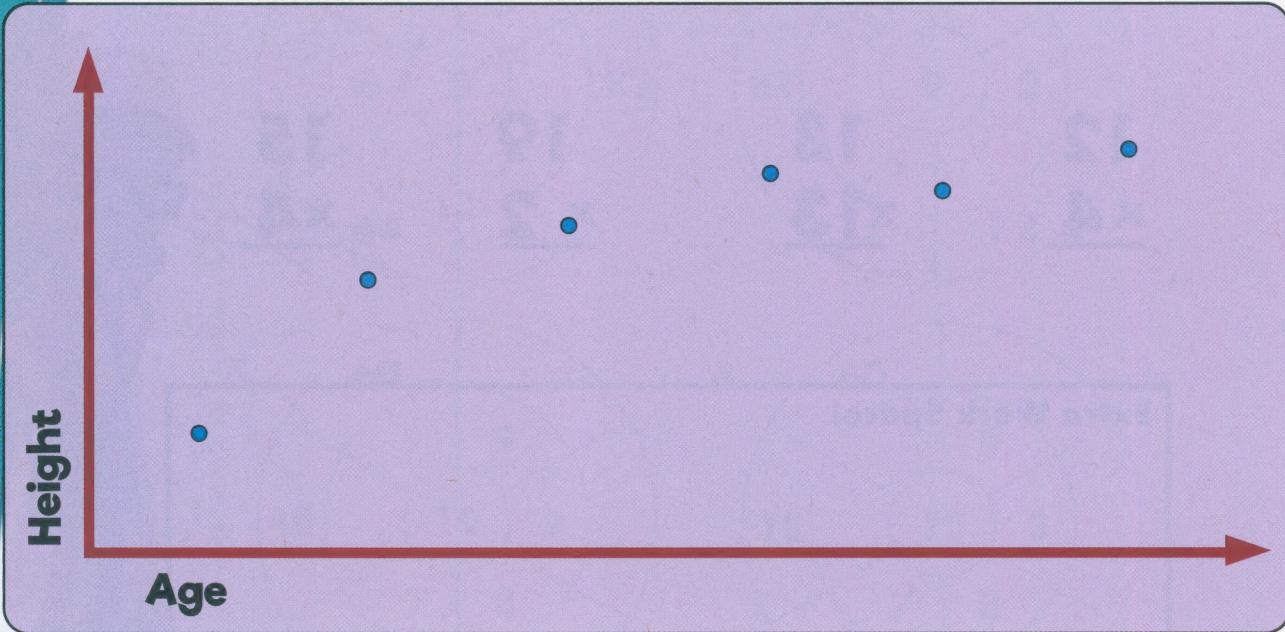
Slider



TW



Matt



THE FINE NUMBER 9

Some kids use their fingers to add. But what about to multiply? Inez likes to use her fingers to multiply by 9. Here's how it works:

To multiply 4 times 9, she folds down the fourth finger from the left (to show the 4).



How does she read the answer?
The tens are to the left of the folded finger and the ones are to the right.
Hmm ... 3 tens, 6 ones, and—check it out! The answer is 36! Now you try it.



What's 5 times 9?

TENS	ONES	ANSWER

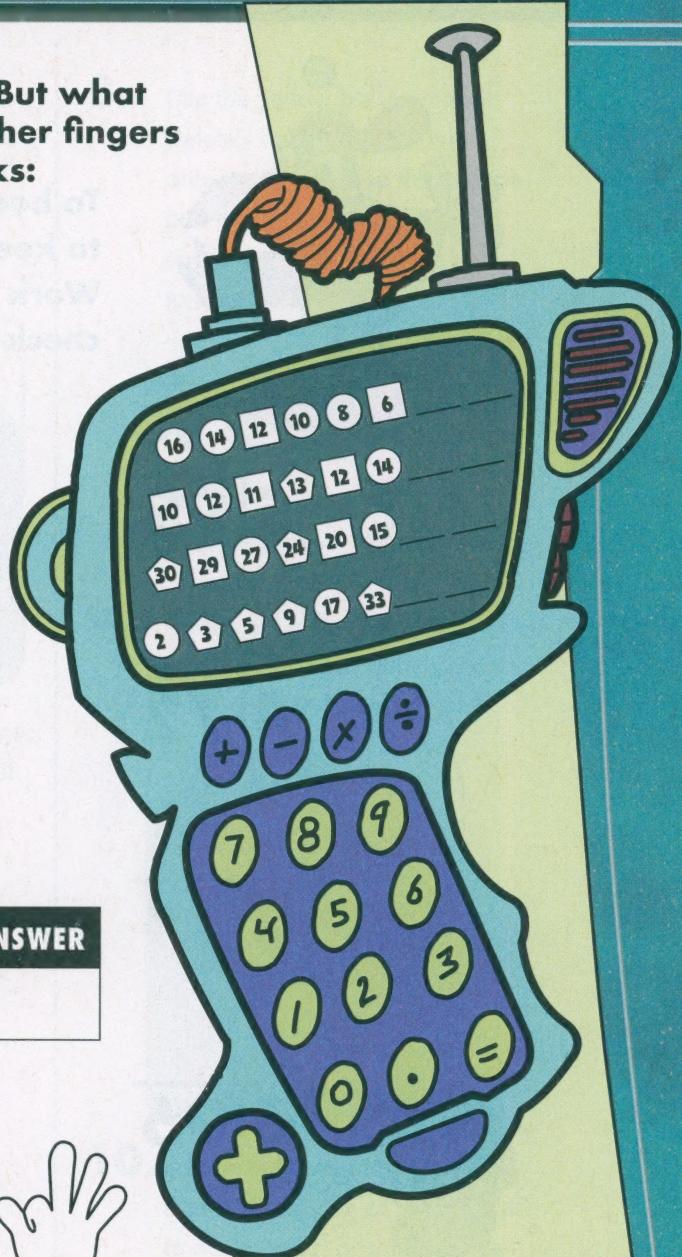
What's 7 times 9?

TENS	ONES	ANSWER



What's 9 times 9?

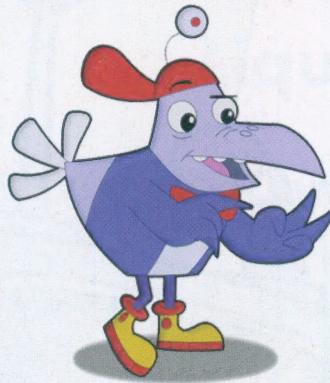
TENS	ONES	ANSWER



Patterns to the Rescue

Hacker has locked Motherboard's memory bank with a secret code, and Digit is stumped! Can you finish each pattern and help save Motherboard?

DIVISION



To become better at anything, you have to keep trying. Even experts need practice! Work through the problems below, then check your answers.

$$5 \overline{)95}$$

$$3 \overline{)48}$$

$$2 \overline{)32}$$

$$4 \overline{)72}$$

$$6 \overline{)72}$$

$$6 \overline{)84}$$

$$2 \overline{)24}$$

$$3 \overline{)45}$$

$$4 \overline{)60}$$

$$6 \overline{)96}$$

$$5 \overline{)60}$$

$$4 \overline{)76}$$

$$5 \overline{)70}$$

$$7 \overline{)84}$$

$$3 \overline{)39}$$

$$2 \overline{)28}$$

$$6 \overline{)78}$$

$$2 \overline{)30}$$

DIVISION

$5 \overline{)85}$

$2 \overline{)48}$

$8 \overline{)32}$

$4 \overline{)88}$

$6 \overline{)36}$

$4 \overline{)84}$

$2 \overline{)44}$

$9 \overline{)45}$

$3 \overline{)60}$

$3 \overline{)96}$

$9 \overline{)90}$

$2 \overline{)86}$

$5 \overline{)80}$

$4 \overline{)96}$

$2 \overline{)66}$

$2 \overline{)28}$

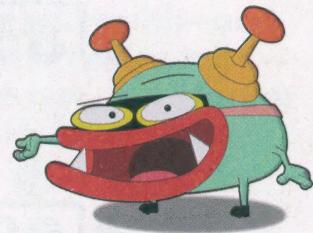
$9 \overline{)81}$

$4 \overline{)48}$



DECIMALS

Adding with Decimals



$$\begin{array}{r} 63.22 \\ +73.29 \\ \hline \end{array}$$

$$\begin{array}{r} 12.74 \\ +13.49 \\ \hline \end{array}$$

$$\begin{array}{r} 52.83 \\ +42.85 \\ \hline \end{array}$$

$$\begin{array}{r} 48.24 \\ +27.82 \\ \hline \end{array}$$

$$\begin{array}{r} 65.58 \\ +69.38 \\ \hline \end{array}$$

$$\begin{array}{r} 20.27 \\ +60.26 \\ \hline \end{array}$$

$$\begin{array}{r} 90.72 \\ +34.12 \\ \hline \end{array}$$

$$\begin{array}{r} 92.79 \\ +91.81 \\ \hline \end{array}$$

$$\begin{array}{r} 42.24 \\ +52.52 \\ \hline \end{array}$$

$$\begin{array}{r} 28.84 \\ +11.53 \\ \hline \end{array}$$

$$\begin{array}{r} 19.32 \\ +90.47 \\ \hline \end{array}$$

$$\begin{array}{r} 97.44 \\ +82.43 \\ \hline \end{array}$$

$$\begin{array}{r} 63.23 \\ +29.98 \\ \hline \end{array}$$

$$\begin{array}{r} 38.73 \\ +26.57 \\ \hline \end{array}$$

$$\begin{array}{r} 74.38 \\ +69.62 \\ \hline \end{array}$$

$$\begin{array}{r} 84.12 \\ +70.38 \\ \hline \end{array}$$



DECIMALS



Multiplying by Powers of Ten with Decimals

$$\begin{array}{r} 79.12 \\ \times \quad 100 \\ \hline \end{array}$$

$$\begin{array}{r} 52.35 \\ \times \quad 100 \\ \hline \end{array}$$

$$\begin{array}{r} 76.44 \\ \times \quad \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 67.76 \\ \times \quad \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 70.51 \\ \times \quad 100 \\ \hline \end{array}$$

$$\begin{array}{r} 32.47 \\ \times \quad \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 36.36 \\ \times \quad \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 25.53 \\ \times \quad \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 88.49 \\ \times \quad 100 \\ \hline \end{array}$$

$$\begin{array}{r} 37.68 \\ \times \quad 1000 \\ \hline \end{array}$$

$$\begin{array}{r} 79.34 \\ \times \quad 1000 \\ \hline \end{array}$$

$$\begin{array}{r} 66.29 \\ \times \quad \quad 100 \\ \hline \end{array}$$

$$\begin{array}{r} 14.65 \\ \times \quad 100 \\ \hline \end{array}$$

$$\begin{array}{r} 98.75 \\ \times \quad 1000 \\ \hline \end{array}$$

$$\begin{array}{r} 10.98 \\ \times \quad \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 90.11 \\ \times \quad 1000 \\ \hline \end{array}$$



FRACTIONS

What is the Fraction of the Shaded Area ?

1.



6.



2.



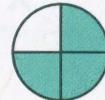
7.



3.



8.



4.



9.



5.



10.



Shade the Figure with the Indicated Fraction.

11.



$$\frac{1}{5}$$

16.



$$\frac{1}{3}$$

12.



$$\frac{2}{5}$$

17.



$$\frac{2}{4}$$

13.



$$\frac{4}{5}$$

18.



$$\frac{4}{8}$$

14.



$$\frac{1}{4}$$

19.



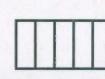
$$\frac{3}{8}$$

15.



$$\frac{2}{3}$$

20.



$$\frac{4}{5}$$

FRACTIONS

Adding Simple Fractions

$$1. \quad \frac{1}{3} + \frac{1}{3} =$$

$$2. \quad \frac{2}{5} + \frac{2}{5} =$$

$$3. \quad \frac{5}{12} + \frac{6}{12} =$$

$$4. \quad \frac{4}{12} + \frac{5}{12} =$$

$$5. \quad \frac{1}{10} + \frac{8}{10} =$$

$$6. \quad \frac{2}{8} + \frac{2}{8} =$$

$$7. \quad \frac{1}{4} + \frac{1}{4} =$$

$$8. \quad \frac{2}{6} + \frac{2}{6} =$$

$$9. \quad \frac{4}{11} + \frac{6}{11} =$$

$$10. \quad \frac{1}{11} + \frac{9}{11} =$$



FIND YOUR WAY

Using multiplication only, find the trail of numbers that leads through each puzzle. Start in the box marked start and work your way to the total.

Start

3	1	5
4	1	2
7	3	6
90		

Start

7	2	5
1	3	6
4	0	9

168

Start

3	1	0
5	2	9
8	6	1

180

Start

4	2	3
1	6	8
7	5	9

140